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## RAW SEQUENCE LISTING

DATE: 02/19/2002

PATENT APPLICATION: US/10/057,951

TIME: 11:09:07

Input Set : A:\PF378P1D1 sequence listing.TXT

Output Set: N:\CRF3\02192002\J057951.raw

3 <110> APPLICANT: Moore et al.  
 5 <120> TITLE OF INVENTION: Tissue Plasminogen Activator-Like Protease  
 7 <130> FILE REFERENCE: PF378P1  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/057,951  
 C--> 9 <141> CURRENT FILING DATE: 2002-01-29  
 9 <150> PRIOR APPLICATION NUMBER: US 09/411,977  
 10 <151> PRIOR FILING DATE: 1999-10-04  
 12 <150> PRIOR APPLICATION NUMBER: US 09/084,491  
 13 <151> PRIOR FILING DATE: 1998-05-27  
 15 <150> PRIOR APPLICATION NUMBER: US 60/048,000  
 16 <151> PRIOR FILING DATE: 1997-05-28  
 18 <160> NUMBER OF SEQ ID NOS: 31  
 20 <170> SOFTWARE: PatentIn Ver. 3.1  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 2329  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Homo sapiens  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: sig\_peptide  
 29 <222> LOCATION: (124)..(186)  
 31 <220> FEATURE:  
 32 <221> NAME/KEY: mat\_peptide  
 33 <222> LOCATION: (187)..(912)  
 35 <220> FEATURE:  
 36 <221> NAME/KEY: CDS  
 37 <222> LOCATION: (124)..(915)  
 39 <400> SEQUENCE: 1  
 40 ttaccagaac agcataacaa gggcaggtct gactgcaagc tgggactggg aggcagagcc 60  
 42 gccgccaagg gggcctcggt taaacactgg tcgttcaatc acctgcaaga cgaagaggca 120  
 44 agg atg ctg ttg gcc tgg gta: caa gca ttc ctc gtc agc aac atg ctc 168  
 45 Met Leu Leu Ala Trp Val Gln Ala Phe Leu Val Ser Asn Met Leu  
 46 -20 -15 -10  
 48 cta gca gaa gcc tat gga tct gga ggc tgt ttc tgg gac aac ggc cac 216  
 49 Leu Ala Glu Ala Tyr Gly Ser Gly Gly Cys Phe Trp Asp Asn Gly His  
 50 -5 -1 1 5 10  
 52 ctg tac cgg gag gac cag acc tcc ccc gcg ccg ggc ctc cgc tgc ctc 264  
 53 Leu Tyr Arg Glu Asp Gln Thr Ser Pro Ala Pro Gly Leu Arg Cys Leu  
 54 15 20 25  
 56 aac tgg ctg gac gcg cag agc ggg ctg gcc tcg gcc ccc gtg tcg ggg 312  
 57 Asn Trp Leu Asp Ala Gln Ser Gly Leu Ala Ser Ala Pro Val Ser Gly  
 58 30 35 40  
 60 gcc ggc aat cac agt tac tgc cga aac ccg gac gag gac ccg cgc ggg 360  
 61 Ala Gly Asn His Ser Tyr Cys Arg Asn Pro Asp Glu Asp Pro Arg Gly

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Input Set : A:\PF378P1D1 sequence listing.TXT

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62          45          50          55
64 ccc tgg tgc tac gtc agt ggc gag gcc ggc gtc cct gag aaa cgg cct 408
65 Pro Trp Cys Tyr Val Ser Gly Glu Ala Gly Val Pro Glu Lys Arg Pro
66      60          65          70
68 tgc gag gac ctg cgc tgt cca gag acc acc tcc cag gcc ctg cca gcc 456
69 Cys Glu Asp Leu Arg Cys Pro Glu Thr Thr Ser Gln Ala Leu Pro Ala
70 75          80          85          90
72 ttc acg aca gaa atc cag gaa gcg tct gaa ggg cca ggt gca gat gag 504
73 Phe Thr Thr Glu Ile Gln Glu Ala Ser Glu Gly Pro Gly Ala Asp Glu
74          95          100          105
76 gtg cag gtg ttc gct cct gcc aac gcc ctg ccc gct cgg agt gag gcg 552
77 Val Gln Val Phe Ala Pro Ala Asn Ala Leu Pro Ala Arg Ser Glu Ala
78          110          115          120
80 gca gct gtg cag cca gtg att ggg atc agc cag cgg gtg cgg atg aac 600
81 Ala Ala Val Gln Pro Val Ile Gly Ile Ser Gln Arg Val Arg Met Asn
82          125          130          135
84 tcc aag gag aaa aag gac ctg gga act ctg ggc tac gtg ctg ggc att 648
85 Ser Lys Glu Lys Lys Asp Leu Gly Thr Leu Gly Tyr Val Leu Gly Ile
86          140          145          150
88 acc atg atg gtg atc atc att gcc atc gga gct ggc atc atc ttg ggc 696
89 Thr Met Met Val Ile Ile Ala Ile Gly Ala Gly Ile Ile Leu Gly
90 155          160          165          170
92 tac tcc tac aag agg ggg aag gat ttg aaa gaa cag cat gat cag aaa 744
93 Tyr Ser Tyr Lys Arg Gly Lys Asp Leu Lys Glu Gln His Asp Gln Lys
94          175          180          185
96 gta tgt gag agg gag atg cag cga atc act ctg ccc ttg tct gcc ttc 792
97 Val Cys Glu Arg Glu Met Gln Arg Ile Thr Leu Pro Leu Ser Ala Phe
98          190          195          200
100 acc aac ccc acc tgt gag att gtg gat gag aag act gtc gtg gtc cac 840
101 Thr Asn Pro Thr Cys Glu Ile Val Asp Glu Lys Thr Val Val Val His
102          205          210          215
104 acc agc cag act cca gtt gac cct cag gag ggc agc acc ccc ctt atg 888
105 Thr Ser Gln Thr Pro Val Asp Pro Gln Glu Gly Ser Thr Pro Leu Met
106          220          225          230
108 ggc cag gcc ggg act cct ggg gcc tga gccccccag tgggcaggag 935
109 Gly Gln Ala Gly Thr Pro Gly Ala
110 235          240
112 cccatgcaga cactggtgca ggacagccca ccctcctaca gctaggagga actaccactt 995
114 tgtgttcttg ttaaaaccct accactcccc cgcttttttg gcgaatccta gtaagagtga 1055
116 cagaagcagg tggccctgtg ggctgagggg aaggctgggt agggtcctaa cagtgtcctt 1115
118 tgtccatccc ttggagcaga ttttgtctgt ggatggagac agtggcagct cccacagtga 1175
120 tgctgctgct aagggtctcc aaacattgcc tgcacccttg gaactgaacc agggatagac 1235
122 ggggagctcc ccaggctcc tctgtgcttt actaagatgg ctcaagtctcc actgtgggct 1295
124 tgagtggcat acactgttat tcatgggttaa ggtaaagcag gtcaagggat ggcattgaaa 1355
126 aaatataatt agttttttaa atatttgga tggaactccc tactgacctc tgacaactgg 1415
128 aaacgagttt gtactgaagt cagaactttg ggttggaat gagatctagg ttgtggctgc 1475
130 tggtatgctt cagcttctg gcaatgatgt gccttgacaa ccgtgggcca ggccctgggcc 1535
132 cagggactct tcctgtttca taaggaaagg aagaattgca ctgagcattc cacttaggaa 1595
134 gaggatagag aaggatctgc tccgcctttg gccacaggag cagaggcaga cctgggatgc 1655

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136 cccagtttct cttcagggat ggatagtgac ctgtcttcat tttgcacagg taagagagta 1715
138 gtttagctaac ctatgggaat tatactgtgg ggccttgtga gctgcttcta agaggctaac 1775
140 ctggaaacta agctcagagg caaggttaata aagcacttca gggcttgctc cccaagtggg 1835
142 cctgatttag caggtgggtct gcgggcgtcc aggtcagcac cttcctgtag ggcactgggg 1895
144 ctagggtcac agcccctaac tcataaagca atcaaagaac cattagaaag ggctcattaa 1955
146 gccttttgga cacaggaccc cagagaggaa aaagtgactt gcccaaggtc gtaagcaagc 2015
148 tactggcatg gcaagagccc agcttcctga cggagcgcaa catttctcca ctgcactgtg 2075
150 ctacgagctc agcagggcct ctaacctgtg atgtcacact caagaggcct tggcagctcc 2135
152 tagccataga gcttcctttc cagaacctt ccaactgcca atgtggagac aggggttagt 2195
154 ggggctttct atggagccat ctgctttggg gacctagacc tcaggtggtc tcttggtgtt 2255
156 agtgatgctg gagaagagaa tattactggt ttctactttt ctataaaggc atttctctat 2315
158 aaaaaaaaaa aaaa 2329
161 <210> SEQ ID NO: 2
162 <211> LENGTH: 263
163 <212> TYPE: PRT
164 <213> ORGANISM: Homo sapiens
166 <400> SEQUENCE: 2
167 Met Leu Leu Ala Trp Val Gln Ala Phe Leu Val Ser Asn Met Leu Leu
168 -20 -15 -10
170 Ala Glu Ala Tyr Gly Ser Gly Gly Cys Phe Trp Asp Asn Gly His Leu
171 -5 -1 1 5 10
173 Tyr Arg Glu Asp Gln Thr Ser Pro Ala Pro Gly Leu Arg Cys Leu Asn
174 15 20 25
176 Trp Leu Asp Ala Gln Ser Gly Leu Ala Ser Ala Pro Val Ser Gly Ala
177 30 35 40
179 Gly Asn His Ser Tyr Cys Arg Asn Pro Asp Glu Asp Pro Arg Gly Pro
180 45 50 55
182 Trp Cys Tyr Val Ser Gly Glu Ala Gly Val Pro Glu Lys Arg Pro Cys
183 60 65 70 75
185 Glu Asp Leu Arg Cys Pro Glu Thr Thr Ser Gln Ala Leu Pro Ala Phe
186 80 85 90
188 Thr Thr Glu Ile Gln Glu Ala Ser Glu Gly Pro Gly Ala Asp Glu Val
189 95 100 105
191 Gln Val Phe Ala Pro Ala Asn Ala Leu Pro Ala Arg Ser Glu Ala Ala
192 110 115 120
194 Ala Val Gln Pro Val Ile Gly Ile Ser Gln Arg Val Arg Met Asn Ser
195 125 130 135
197 Lys Glu Lys Lys Asp Leu Gly Thr Leu Gly Tyr Val Leu Gly Ile Thr
198 140 145 150 155
200 Met Met Val Ile Ile Ile Ala Ile Gly Ala Gly Ile Ile Leu Gly Tyr
201 160 165 170
203 Ser Tyr Lys Arg Gly Lys Asp Leu Lys Glu Gln His Asp Gln Lys Val
204 175 180 185
206 Cys Glu Arg Glu Met Gln Arg Ile Thr Leu Pro Leu Ser Ala Phe Thr
207 190 195 200
209 Asn Pro Thr Cys Glu Ile Val Asp Glu Lys Thr Val Val Val His Thr
210 205 210 215
212 Ser Gln Thr Pro Val Asp Pro Gln Glu Gly Ser Thr Pro Leu Met Gly
213 220 225 230 235

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Input Set : A:\PF378P1D1 sequence listing.TXT

Output Set: N:\CRF3\02192002\J057951.raw

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215 Gln Ala Gly Thr Pro Gly Ala
216                               240
219 <210> SEQ ID NO: 3
220 <211> LENGTH: 326
221 <212> TYPE: PRT
222 <213> ORGANISM: Homo sapiens
224 <400> SEQUENCE: 3
225 Tyr Val Phe Lys Ala Gly Lys Tyr Ser Ser Glu Phe Cys Ser Thr Pro
226   1                               5          10          15
228 Ala Cys Ser Glu Gly Asn Ser Asp Cys Tyr Phe Gly Asn Gly Ser Ala
229           20          25          30
231 Tyr Arg Gly Thr His Ser Leu Thr Glu Ser Gly Ala Ser Cys Leu Pro
232           35          40          45
234 Trp Asn Ser Met Ile Leu Ile Gly Lys Val Tyr Thr Ala Gln Asn Pro
235           50          55          60
237 Ser Ala Gln Ala Leu Gly Leu Gly Lys His Asn Tyr Cys Arg Asn Pro
238   65           70          75          80
240 Asp Gly Asp Ala Lys Pro Trp Cys His Val Leu Lys Asn Arg Arg Leu
241           85          90          95
243 Thr Trp Glu Tyr Cys Asp Val Pro Ser Cys Ser Thr Cys Gly Leu Arg
244           100         105         110
246 Gln Tyr Ser Gln Pro Gln Phe Arg Ile Lys Gly Gly Leu Phe Ala Asp
247           115         120         125
249 Ile Ala Ser His Pro Trp Gln Ala Ala Ile Phe Ala Lys His Arg Arg
250   130         135         140
252 Ser Pro Gly Glu Arg Phe Leu Cys Gly Gly Ile Leu Ile Ser Ser Cys
253 145         150         155         160
255 Trp Ile Leu Ser Ala Ala His Cys Phe Gln Glu Arg Phe Pro Pro His
256           165         170         175
258 His Leu Thr Val Ile Leu Gly Arg Thr Tyr Arg Val Val Pro Gly Glu
259           180         185         190
261 Glu Glu Gln Lys Phe Glu Val Glu Lys Tyr Ile Val His Lys Glu Phe
262           195         200         205
264 Asp Asp Asp Thr Tyr Asp Asn Asp Ile Ala Leu Leu Gln Leu Lys Ser
265   210         215         220
267 Asp Ser Ser Arg Cys Ala Gln Glu Ser Ser Val Val Arg Thr Val Cys
268 225         230         235         240
270 Leu Pro Pro Ala Asp Leu Gln Leu Pro Asp Trp Thr Glu Cys Glu Leu
271           245         250         255
273 Ser Gly Tyr Gly Lys His Glu Ala Leu Ser Pro Phe Tyr Ser Glu Arg
274           260         265         270
276 Leu Lys Glu Ala His Val Arg Leu Tyr Pro Ser Ser Arg Cys Thr Ser
277           275         280         285
279 Gln His Leu Leu Asn Arg Thr Val Thr Asp Asn Met Leu Cys Ala Gly
280   290         295         300
282 Asp Thr Arg Ser Gly Gly Pro Gln Ala Asn Leu His Asp Ala Cys Gln
283 305         310         315         320
285 Gly Asp Ser Gly Gly Pro
286           325

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Input Set : A:\PF378P1D1 sequence listing.TXT

Output Set: N:\CRF3\02192002\J057951.raw

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289 <210> SEQ ID NO: 4
290 <211> LENGTH: 252
291 <212> TYPE: DNA
292 <213> ORGANISM: Homo sapiens
294 <220> FEATURE:
295 <221> NAME/KEY: misc_feature
296 <222> LOCATION: (91)..(91)
297 <223> OTHER INFORMATION: n equals a, t, g or c
299 <220> FEATURE:
300 <221> NAME/KEY: misc_feature
301 <222> LOCATION: (185)..(185)
302 <223> OTHER INFORMATION: n equals a, t, g or c
304 <400> SEQUENCE: 4
305 attgcactga gcattccact taggaagagg atagagaagg atctgctccg cctttggcca 60
W- 307 caggagcaga ggcagacctg ggatgcccc ntttctcttc agggatggat agtgacctgt 120
W- 309 cttcatittg cacaggtaag agagtagtta gctaacctat gggaattata ctgtggggcc 180
311 ttgtnagctg cttctaagag gctaacctgg aaactaagct cagaggcaag gtaataaagc 240
313 acttcagggc tt 252
316 <210> SEQ ID NO: 5
317 <211> LENGTH: 247
318 <212> TYPE: DNA
319 <213> ORGANISM: Homo sapiens
321 <400> SEQUENCE: 5
322 atagagaaat gcctttatag aaaagtagaa accagtaata ttctcttctc cagcatcact 60
324 aacaccaaga gaccacctga ggtctaggtc cccaaagcag atggctccat agaaagcccc 120
326 actaacccgt ctccacattg ggcagtggaa gggttctgga aaggaagctc tatggctagg 180
328 agctgccaaag gcctcttgag tgtgacatca caggtttagag gcctgctga gctgctagca 240
330 cagtga 247
333 <210> SEQ ID NO: 6
334 <211> LENGTH: 510
335 <212> TYPE: DNA
336 <213> ORGANISM: Homo sapiens
338 <220> FEATURE:
339 <221> NAME/KEY: misc_feature
340 <222> LOCATION: (10)..(10)
341 <223> OTHER INFORMATION: n equals a, t, g or c
343 <220> FEATURE:
344 <221> NAME/KEY: misc_feature
345 <222> LOCATION: (46)..(46)
346 <223> OTHER INFORMATION: n equals a, t, g or c
348 <220> FEATURE:
349 <221> NAME/KEY: misc_feature
350 <222> LOCATION: (68)..(68)
351 <223> OTHER INFORMATION: n equals a, t, g or c
353 <220> FEATURE:
354 <221> NAME/KEY: misc_feature
355 <222> LOCATION: (115)..(115)
356 <223> OTHER INFORMATION: n equals a, t, g or c
358 <220> FEATURE:

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Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

## VERIFICATION SUMMARY

DATE: 02/19/2002

PATENT APPLICATION: US/10/057,951

TIME: 11:09:08

Input Set : A:\PF378P1D1 sequence listing.TXT

Output Set: N:\CRF3\02192002\J057951.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:744 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:882 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:888 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:1196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28